

CertainTeed

Agricultural Irrigation Products

Featuring the Certa-Lok™ Restrained Joint Locking System



Agricultural
Irrigation

Certa-Set™

Product Options

- SDR32.5 (125psi)
- SDR41 (100psi)
- 6" through 12"
- 3" OD Pipe and Couplings



Restrained-Joint PVC Pipe

Efficiency • Performance • Simplicity • Sustainability

Key Advantages

- Exceptional impact strength and UV resistance
- Simple & fast assembly
- Immediate full strength joint (no solvent cements or butt fusion required)
- Maintains watertight pressure seal through multiple disassembly/ reassembly cycles
- Consistently leak-free – even at startup and shutdown



CertainTeed
SAINT-GOBAIN

Certa-Set™ Agricultural Irrigation Piping System

Certa-Set has been performance-proven in demanding applications for more than 40 years. The benefits of Main Line and lateral piping systems to growers of row crops and turf grass include:

- Unsurpassed leakproof solutions for Main Line and lateral applications
- Virtually impervious to effects of sunlight, electrolysis, chemicals and fertilizers
- Helps conserve water and improve yields
- Saves on labor and equipment

Certa-Set Main Line Piping

Certa-Set Main Line is as easy to work with as it is durable. It can be shallow-buried, allowing trucks access to fields without the time and expense of moving pipe. The leakproof performance of the Certa-Lok joint eliminates the need for catch basins to dispose of leaked water, a common problem with aluminum pipe. The Certa-Lok joint also makes Main Line easy to connect and disconnect, the perfect complement to Certa-Set laterals as well as other types of temporary and semi-permanent drip systems.



Certa-Set Lateral System

The Certa-Set lateral solid-set irrigation piping system is portable, highly efficient and delivers virtually leakproof operation. The patented Certa-Set sled coupling is an integral part of the Certa-Set lateral system. It's designed to eliminate leakage during startup, operation and shut-down while ensuring that risers remain upright, even during mechanical handling.

- Instant pressurization at startup – takes minutes (vs. hours for aluminum systems)
- Frictional loss flow coefficient up to 15% better than aluminum
- Distribution uniformity (DU) of 84%* vs. about 70% for comparable aluminum systems
- New 3/4" riser and riser cap offers improved flow characteristics compared to old 1/2" riser cap

*DU testing by the National Resources Conservation Service, a division of the U.S. Department of Agriculture

Certa-Lok self-restraining joint

Certa-Set Main Line, laterals and sled couplings feature the unique Certa-Lok self-restraining joint with precision-engineered grooves. When aligned they allow a spline to be inserted, instantly creating a continuous restrained joint with evenly distributed loading that locks pipe and coupling together. A flexible elastomeric O-ring in the coupling provides a hydraulic pressure seal. The beauty of this system is that pipe sections can be assembled quickly in all weather conditions: no solvents, arc welding or reinforcing attachments are required. Sections can be easily disassembled and reconfigured, a real advantage to growers who need to move irrigation systems from field to field.



Restrained-Joint PVC Pipe

Efficiency • Performance • Simplicity • Sustainability

Features and Benefits of the Certa-Set System

- **Leakproof operation**

Eliminates puddling and conserves water. Maintains a watertight seal, even after multiple disassembly/reassembly cycles and at startup and shutdown of every watering cycle.

- **Durability**

Modified PVC includes UV inhibitors that counteract the damaging effects of prolonged exposure to sunlight. Special additives improve resistance to impact loads typically encountered in aboveground irrigation systems.



- **Corrosion resistance**

Will not pit or corrode, or deteriorate due to electrolysis or injection of fertilizers or chemicals – even copper-based products. Extremely smooth interior surface improves water flow, reducing pumping costs.



- **Outstanding stability**

Certa-Set sled "wings" keep coupling in place and riser upright – even in harsh weather.

- **Suitability for mechanization**

Compatible with mechanical side-shift operations of up to 20 feet; pipe can easily be shifted with roller system to ride over top of cultivation equipment.

- **Automation capability**

Pipe can be transferred from field to field using AIM Inc.'s Golden Retriever. No manual loading and unloading of pipe needed.

- **Easy to install**

Certa-Lok spline joint makes Certa-Set components easy to install and disassemble for relocation and reuse.



- **Easy to handle**

Certa-Set pipe available in convenient 20-, 30- and 40-foot lengths that can be moved and set up without heavy equipment or special tooling.



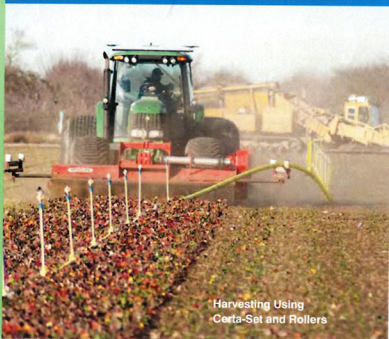


Certa-Set system -
no leaking joints



Aluminum system -
puddling around leaking joints

The Certa-Set PVC piping system offers durability, flexibility and performance aluminum systems can't match. One of Certa-Set's best features is leakproof operation, which eliminates the puddling (and crop damage) that can plague aluminum systems.



Harvesting Using
Certa-Set and Rollers

ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

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